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^{125}Te NMR study of $IrTe_2$

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$IrTe_2$ shows basically metalic behavior. But, the anomalous behavior in electrical and magnetic properties has been found around 270K. The resistivity exhabits a hump-shaped maximum, and the magnetic susceptibility reveals a step-like anomaly. Also, it is clarified that the crystal structure deforms gradually with temperature. This structual transformation may cause the anomalous physical properties. In order to investigte the microscopic origin of the anomalous behavior, we have carried out ^{125}Te NMR experiment in $IrTe_2$. In high temperature side, the spectrum exhibits a sharp NMR line. On the other hand, in low temperature side, the spectrum shifts to the higher magnetic field and splits into three lines. It suggests that there may be a kind of lattice distortion at low temperature. Detailed experiments are now in progress.